

Fig. 2 In "Presence"

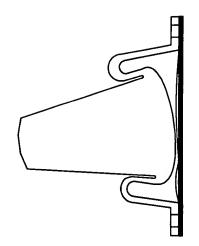
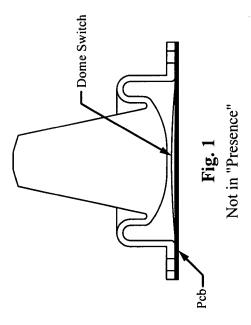


Fig. 4 Clicking "On the Fly"



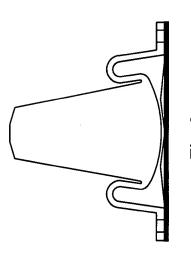
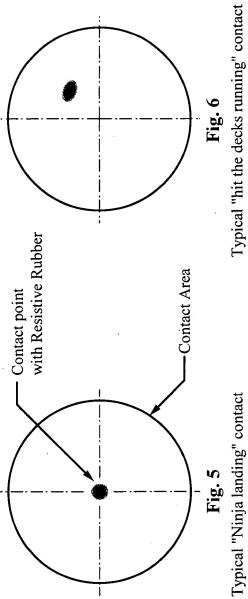
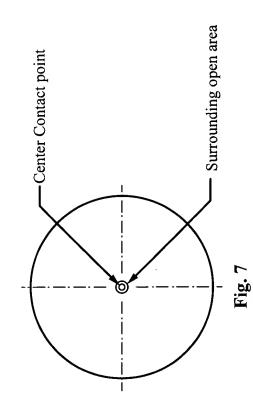


Fig. 3
Clicking (Dome Switch collapsed)





"Hardware Help" for auto-calibration

Include/File structure for VaraPoint Firmware

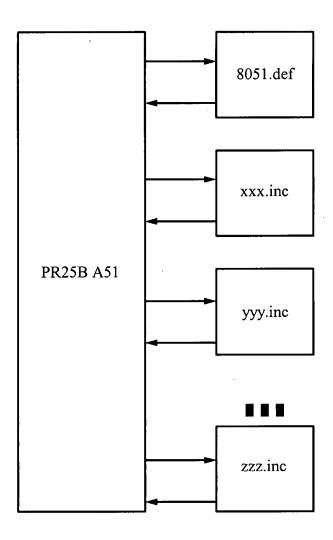


Fig. 8

Interrupt vector code MAIN: is described as "main loop," but it isn't at all. It is the startup entry point. The only reference to MAIN: in the code is in the RESET interrupt vector Initialize serial communication, if appropriate Initialize circular communications buffer

Initialize Memory. Since most memory will be initialized to 0's, a loop is performed to zero out the region 20h to 80h. Those locations which need values other than 0 are individually set.

There are a lot of commented-out lines of code to initialize individual locations to 0, which were superseded when the loop was introduced. The loop takes up much less code space than the individual MOVs

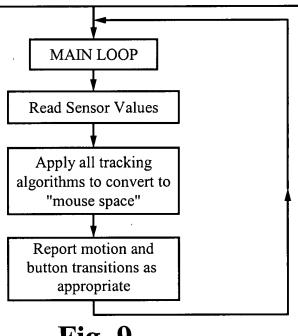


Fig. 9

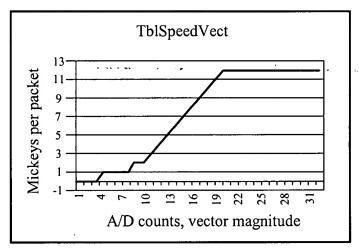


Fig. 10A

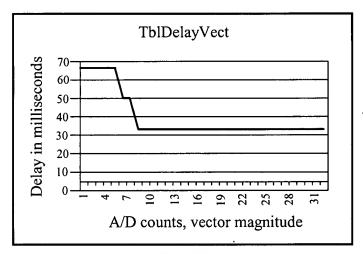


Fig. 10B

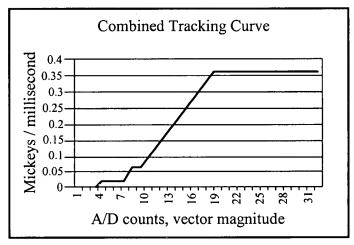


Fig. 10C

Tracking Algorithm Description

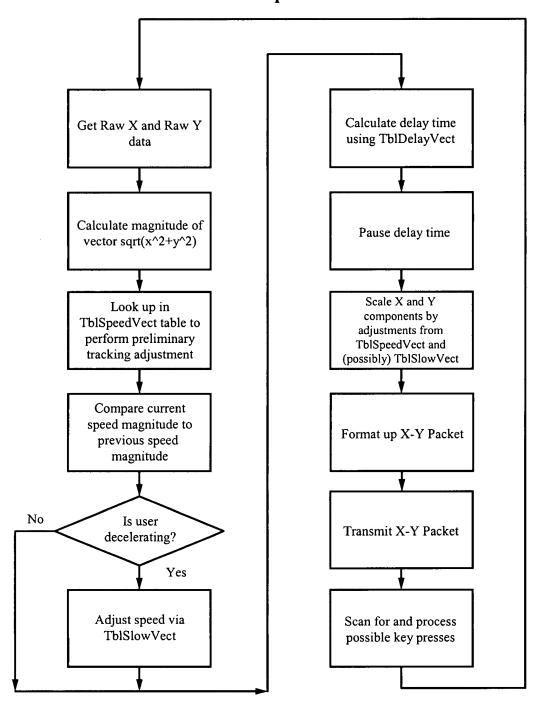


Fig. 11